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**Edition 87**

***Editor's Desk***

Dear friends,

The greatest glory in living lies not in  
never falling, but in rising every time we fall.

-Nelson Mandela

Happy Reading,

Regards

Bhavna Botta

<http://www.connectspecial.in/>

# Inclusive Innovations

## **Carbonhand**

Carbonhand is a revolutionary aid that gives back power to people with impaired hand function. Pressure sensors and advanced technology ensure the glove adds power in cases where the user's own muscles are inadequate.

Carbonhand is an assistive aid in the form of a grip-strengthening glove with pressure sensors in the fingers that sense when the user needs support. The pressure sensors detect when the user initiates a hand grip and the glove then applies the power needed to ensure a firm grip. Carbonhand comes in five different sizes for right and left hands.



**Picture shows a black glove showing pressure sensors worn on right palm of a hand**

Artificial tendons and electric motors add power to the glove ensuring endurance for people with impaired hand function. This enables activities in everyday life, at work, or during rehabilitation. In addition to the actual glove, Carbonhand consists of a small power unit that distributes the power as required. You can wear Carbonhand on your back or around your waist, which allows it to be customized to suit the situation or your preferences.

<https://www.bioservo.com>

# Ghotit

Ghotit is specifically designed for students with dyslexia and other learning disorders who have difficulties with writing. The name is inspired by the word “Ghoti,” which is a constructed term that illustrates irregularities in the English language. And since many spellings are counter intuitive — especially for those with dyslexia — Ghotit dedicates itself to assisting children and adults who struggle with writing accurately.

It features the ability to learn from the user’s past mistakes, personalizing suggestions for spelling and grammatical errors.

Ghotit can predict words, check passages of text contextually, read text aloud using TTS technology and recognize split and merged words. It also includes an integrated dictionary for students to quickly look up a word.

<https://www.ghotit.com/>

# Project Leonardo

Developed with key contributions from accessibility experts, community members, and game developers, Project Leonardo is our code name for a new highly customizable controller kit that works “out of the box” to help many players with disabilities play games more easily, more comfortably, and for longer periods. It is built to address common challenges faced by many players with limited motor control, including difficulty holding a controller for long periods, accurately pressing small clusters of buttons or triggers, or



**Picture shows finger and thumb controlling gaming controls**

positioning thumbs and fingers optimally on a standard controller.

Highly customizable play experience

**Hardware customizations.** Project Leonardo for PS 5 is a canvas for gamers to craft their own play experience. It includes a robust kit of swappable components, including a variety of analog stick caps and buttons in different shapes and sizes.

Players can use these components to craft a wide array of control layouts. And the distance of the analog stick from the game pad can be adjusted to suit the player's preference. These components allow players to find a configuration that works for their strength, range of motion, and particular physical needs.

<https://blog.playstation.com/2023/01/04/introducing-project-leonardo-for-playstation-5-a-highly-customizable-accessibility-controller-kit/>

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